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ABSTRACT

Peptides which mimic a loop on the γ -chain that either interact with a cytokine or a γ -chain partner receptor chain of a heterodimeric cytokine receptor are disclosed. 5 peptides consist of 5-25 amino acids and inhibit signal transduction mediated by cytokine: receptor binding of cytokines that bind to receptors that comprise a y-chain. Pharmaceutical compositions that comprise the peptides are disclosed. Methods of inhibiting signal transduction mediated by cytokine:receptor 10 binding of cytokines that bind to receptors that comprise a γ chain, methods of inhibiting cytokine mediated cell growth, proliferation, function or activity, methods of treating patients suffering from a disease disorder or condition characterized by cytokine mediated cell growth, proliferation, 15 function or activity and methods of preventing a condition characterized by cytokine mediated cell growth, proliferation, function or activity are disclosed.